

Serial No. 09/740,465

-2-

Art Unit 1754

AMENDMENTSIn the Specification

Please replace the paragraph beginning on line 5, page 16, with the following amended paragraph:

Conventional practice calls for process which regenerates a pure HCl. The economics of a conventional regeneration system include flashing the HCl and cooling subsequent to and tied to the flashing. The apparatus and process of the present invention operate to have sulfate and iron present and not need to go through the difficulty and energy expense and to get all the iron out of the system. The apparatus and process of the present invention operate not to go across a large phase transition from liquid to vapor. The apparatus and process of the present invention operate to have a phase transition from liquid to crystal from 90°F down to ~~35-0°F~~ 0-35°F, not 90°F to 600°F, providing a significant energy savings. The apparatus and process include a low energy phase change, namely crystallization compared to a high energy phase change, namely vaporization and condensation. The apparatus and process of the present invention operate to go across crystallization of ferrous salt, providing a significant energy advantage.